

Storage SuperServer SSG-631E-E1CR16H

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3U front-loading storage server with 16 hot-swap 3.5" SAS/SATA bays (SAS hardware RAID) and PCIe 5.0

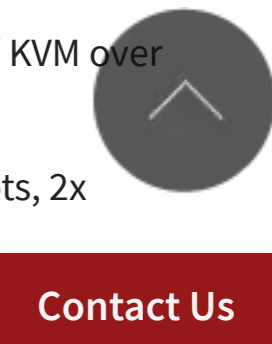


Key Applications

- Enterprise Server
- HPC, Data Center
- Corporate Database
- iSCSI SAN
- Database Processing & Storage
- Appliance Optimized Storage Building Blocks

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots
- 2x 10 GbE onboard via Broadcom BCM57416
1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
- 16x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110)
- 5x 8cm hot-swap counter-rotate redundant PWM cooling fans
- 1200W Redundant Power Supplies Titanium Level (96%)
- HW RAID support via Broadcom® 3908



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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SSG-631E-E1CR16H**

Motherboard

Super X13DEI-T

Processor

- CPU** Dual Socket E (LGA-4677)
[5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors](#)
- Note** Supports up to 270W TDP CPUs (Air Cooled)

System Memory

Memory Slot Count: 16 DIMM slots
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
[View Memory Options >](#)

Memory Voltage 1.1V

On-Board Devices

Chipset Intel® C741

Network Connectivity 2 RJ45 10GbE with Broadcom® BCM57416
[View AOC Options >](#)

Input / Output

- LAN** 1 RJ45 1 GbE Dedicated BMC LAN port
2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) (IPMI shared on LAN port 1)
- USB** 4 USB 3.0 ports(rear)
- Video** 1 VGA port(Rear)
- Serial** 1 COM port(Rear)
- TPM** 1 TPM header

System BIOS

BIOS Type AMI 32MB SPI Flash EEPROM

Management

Software [SuperCloud Composer](#)
[Supermicro Server Manager \(SSM\)](#)
[Supermicro Update Manager \(SUM\)](#)
[Supermicro SuperDoctor® 5 \(SD5\)](#)
[Super Diagnostics Offline \(SDO\)](#)
[Supermicro Thin-Agent Service \(TAS\)](#)
[SuperServer Automation Assistant \(SAA\) New!](#)

Power configurations Power-on mode for AC power recovery
ACPI Power Management

Security

- Hardware** Trusted Platform Module (TPM) 2.0
Silicon Root of Trust (RoT) – NIST 800-193 Compliant
- Features** Cryptographically Signed Firmware
Secure Boot
Secure Firmware Updates
Automatic Firmware Recovery
Supply Chain Security: Remote Attestation
Runtime BMC Protections
System Lockdown

PC Health Monitoring

- CPU** Monitors for CPU Cores, Chipset Voltages, Memory
7+1 Phase-switching voltage regulator
- FAN** Fans with tachometer monitoring
Status monitor for speed control
Pulse Width Modulated (PWM) fan connectors
- Temperature** Monitoring for CPU and chassis environment
Thermal Control for fan connectors

Chassis

Form Factor 3U Rackmount

Model **CSE-836BTS-R1K23BP2**

Dimensions and Weight

- Height** 5.2"
- Width** 17.2"
- Depth** 25.5"
- Package** 13" (H) x 27" (W) x 35" (D)
- Weight** Gross Weight: 79 lbs (48 kg)
- Available Color** Silver

Front Panel

- LED** HDD activity
Network activity
Power status
System information (overheat/UID)
- Buttons** Power On/Off

Expansion Slots

PCI-Express (PCIe) Configuration Default
4 PCIe 5.0 x16 (in x16) FHHL slots
2 PCIe 5.0 x8 (in x8) FH/10.5"L slots
[View AOC Options >](#)

Drive Bays / Storage

- Drive Bays Configuration** Default: Total 18 bays
16 front hot-swap 3.5" SAS/SATA drive bays
2 rear hot-swap 2.5" SATA drive bays
[View Drive Options >](#)
- M.2** 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110)
[View M.2 Options >](#)
- Peripheral Bays** 1 slim DVD bay (optional)

System Cooling

Fans 5 Heavy Duty 8cm Fan(s)

Power Supply

2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies

- Dimension (WxHxL)** 76 x 40 x 336 mm
- Input** 1000W: 100-127Vac
1000W: 100-127Vac / 50-60Hz
1200W: 200-240Vac
1200W: 200-240Vac / 50-60Hz
1200W: 200-240Vdc / 50-60Hz (for CCC only)
- +12V** Max: 83A / Min: 0A (100Vac-127Vac)
Max: 100A / Min: 0A (200Vdc-240Vdc)
Max: 100A / Min: 0A (200Vac-240Vac)
- 5V SB** Max: 4A / Min: 0A

Output Type Backplanes (gold finger)

Operating Environment

ROHS RoHS Compliant

Environmental Spec. Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity: 8% to 90% (Non-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Certain products may not be available in your region

Global SKU English

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